SIGMA-ALDRICH

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SAFETY DATA SHEET

Version 4.5 Revision Date 03/17/2015 Print Date 03/16/2016

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifiers

Product name : Tin(II) chloride dihydrate

Product Number 243523 Brand : Sigma-Aldrich CAS-No. : 10025-69-1

Relevant identified uses of the substance or mixture and uses advised against

: Laboratory chemicals, Manufacture of substances

Details of the supplier of the safety data sheet

Company Sigma-Aldrich

3050 Spruce Street SAINT LOUIS MO 63103

USA

Telephone +1 800-325-5832 +1 800-325-5052

Emergency telephone number

Emergency Phone # : (314) 776-6555

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Inhalation (Category 4), H332 Skin corrosion (Category 1B), H314 Serious eye damage (Category 1), H318 Skin sensitisation (Category 1), H317 Germ cell mutagenicity (Category 2), H341 Reproductive toxicity (Category 2), H361

Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

Specific target organ toxicity - repeated exposure, Oral (Category 2), Cardio-vascular system, H373

Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

GHS Label elements, including precautionary statements

Pictogram

Signal word Danger

Hazard statement(s)

Causes severe skin burns and eve damage. H314 May cause an allergic skin reaction. H317

H318 Causes serious eye damage. Harmful if inhaled.

May cause respiratory irritation.

H318 H332 H335 H341 Sigma-Aldrich - 243523 Suspected of causing genetic defects.

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H361	Suspected of damaging fertility or the unborn child.
H373	May cause damage to organs (Cardio-vascular system) through prolonged or repeated exposure if swallowed.
H410	Very toxic to aquatic life with long lasting effects.
Precautionary statement(s)	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace
P273	Avoid release to the environment.
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Binse skin with water/shower.
P304 + P340 + P310	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
P305 + P351 + P338 + P310	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P333 + P313	If skin irritation or rash occurs: Get medical advice/ attention.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.

Hazards not otherwise classified (HNOC) or not covered by GHS - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

P501

: Stannous chloridedihydrate Synonyms

Cl₂Sn · 2H₂O Formula Molecular weight 225.65 g/mol 10025-69-1 CAS-No. EC-No. 231-868-0

Hazardous components

Component	- 19 Page 19 P	Classification	Concentration
Stannous chloride dihydrat	e		
		Acute Tox. 4; Skin Corr. 1B;	<= 100 %
		Eye Dam. 1; Skin Sens. 1;	
		Muta. 2; Repr. 2; STOT SE 3;	
		STOT RE 2; Aquatic Acute 1;	
		Aquatic Chronic 1; H314,	
		H317, H318, H332, H335,	
		H341, H361, H373, H410	

Dispose of contents/ container to an approved waste disposal plant.

For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES

Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

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Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Body Protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

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a)	Appearance	Form: Fine crystals and fragments			

Colour: white

b) Odour No data available

c) Odour Threshold No data available

pН No data available

e) Melting point/freezing point

Melting point/range: 37 - 38 ℃ (99 - 100 ℉) - dec.

Initial boiling point and

boiling range Flash point

No data available

Evaporation rate No data available

Flammability (solid, gas) No data available

Upper/lower

No data available

No data available

652 °C (1,206 °F) - lit.

flammability or

Vapour pressure

explosive limits

Vapour density No data available

m) Relative density 2.71 g/cm3

n) Water solubility soluble

o) Partition coefficient: n-No data available

octanol/water

Auto-ignition No data available temperature

temperat

q) Decompositemperat
Sigma-Aldrich - 243523 q) Decomposition No data available

temperature

r) Viscosity No data available s) Explosive properties No data available t) Oxidizing properties No data available

Other safety information

No data available

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

Exposure to moisture may affect product quality. Exposure to air may affect product quality.

10.5 Incompatible materials

Hydrogen peroxide, Strong bases, Strong oxidizing agents, Bromine trifluoride, Hydrazine, Ethylene oxide, Metals, organic nitrates

Hazardous decomposition products

Other decomposition products - No data available

In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

No data available

Inhalation: No data available

Dermal: No data available

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

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In vitro tests showed mutagenic effects

Carcinogenicity

NTP:

OSHA:

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IARC: No component of this product present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC.

No component of this product present at levels greater than or equal to 0.1% is identified as a ACGIH:

carcinogen or potential carcinogen by ACGIH.

No component of this product present at levels greater than or equal to 0.1% is identified as a

known or anticipated carcinogen by NTP.

No component of this product present at levels greater than or equal to 0.1% is identified as a

carcinogen or potential carcinogen by OSHA.

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Fire Hazard:

1

Reactivity Hazard:

0

Further information

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Preparation Information

Sigma-Aldrich Corporation Product Safety – Americas Region 1-800-521-8956

Version: 4.5

Revision Date: 03/17/2015

Print Date: 03/16/2016